



## **RIDOT TMC Incident Statistics 1/1/2012 To 3/31/2012**

The Rhode Island transportation system serves 39 cities and towns, encompassing urban, suburban, and tourism areas. The Rhode Island Department of Transportation's Transportation Management Center (RIDOT TMC) has been addressing the problem of increasing congestion in Rhode Island by informing the traveler of crashes and unusual delays. In doing so, the TMC has provided measurable benefits to the transportation system, and has developed the technology and institutional awareness necessary to expand the Intelligent Transportation Systems (ITS) Program (called RhodeWays) to the benefit of Rhode Island travelers.

The RIDOT TMC maintains detailed statistics on incidents that we manage from our center. Because the data are entered by our TMC Operators, the statistics are dependent on what we can observe on the roadways with our equipment. Review and compilation of these statistics is done quarterly. By making these statistics available to you, we hope that you can learn more about the program and understand the benefit of the services we provide to the Rhode Island motoring public.

The types of incidents tabulated in this report include disabled vehicles, debris on the roadway, emergency roadwork, vehicle accidents, and vehicle rollovers. Additionally, a category exists for congestion delays that are outside of typical recurring congestion. The TMC does assist in information dissemination for planned events (such as construction) as well, but those types of events are not included in the statistics. Also, abandoned vehicles are not included since they tend to skew the statistics.

We hope you find this report interesting and that it helps in understanding the significant benefit that the RhodeWays program provides to the people who travel Rhode Island's roadways every day. Also, please remember to check the TMC website frequently for updates (<http://www.tmc.state.ri.us>), including construction and incident information.

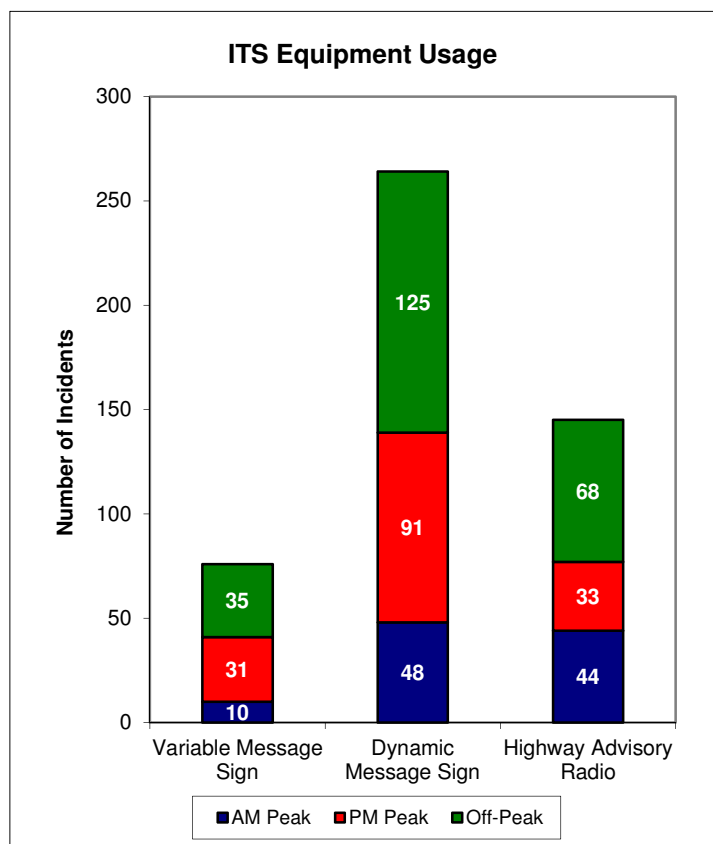
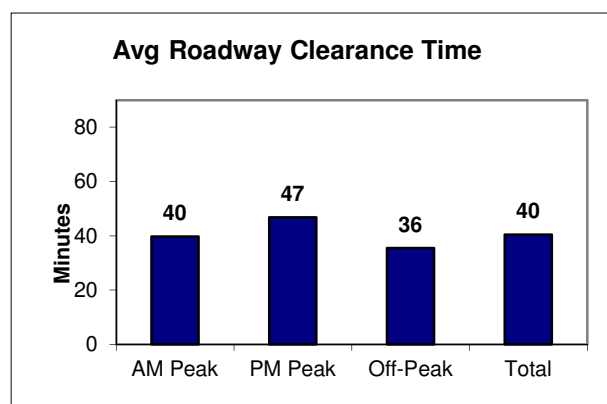
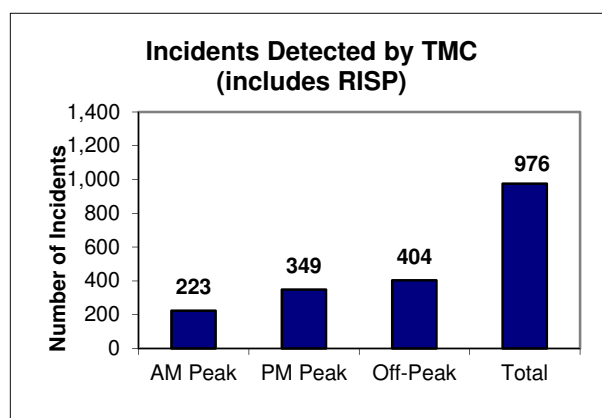
# RIDOT TMC Incident Statistics Report

## 1. Peak Period Incident Statistics\*

	AM Peak	PM Peak	Off-Peak	Total
Number of Incidents	233	359	421	1013
Avg. Incident Clearance Time (min)	42	47	36	41
Avg. Roadway Clearance Time (min)	40	47	36	40
# Detected by TMC Operators	132	76	166	374
# Detected by State Police (RISP)	91	273	238	602
# Notified by RhodeWatchers	0	0	1	1
# Utilizing VMS	10	31	35	76
# Utilizing DMS	48	91	125	264
# Utilizing HAR	44	33	68	145
# Posted to Web	197	326	303	826
Avg. Delay Cost**	\$178,059	\$198,822	\$151,325	\$174,307
Total Delay Cost	\$41,487,820	\$71,376,990	\$63,707,995	\$176,572,805

\* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

\*\* Delay Cost is a function of incident duration, volume on the roadway, delay per person, and cost per hour of delay for both commercial and personal vehicles. Average delay cost includes only incidents with a lane blockage and represents average cost per incident.



*Note: Statistics in this report are only for incidents that the TMC reported or responded to during the quarter. They do not include all incidents that occurred on Rhode Island roadways.*

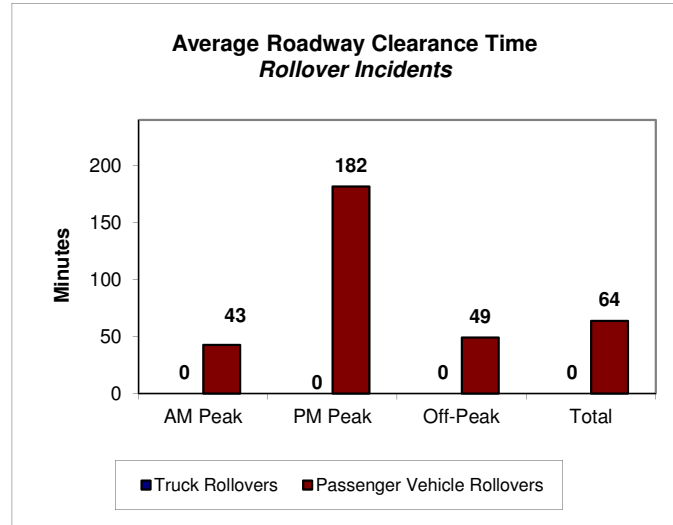
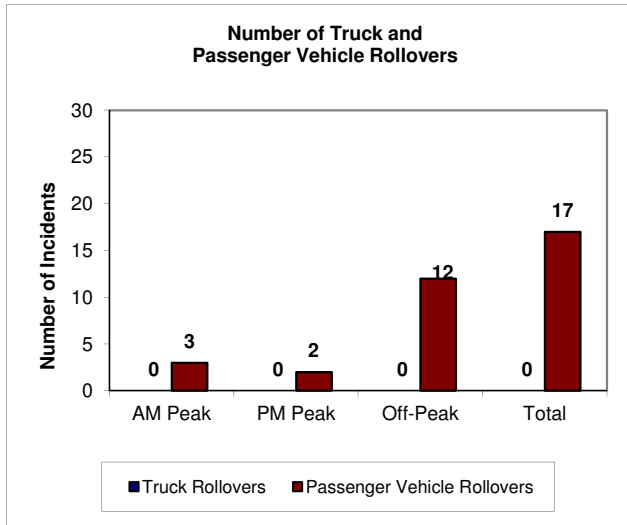
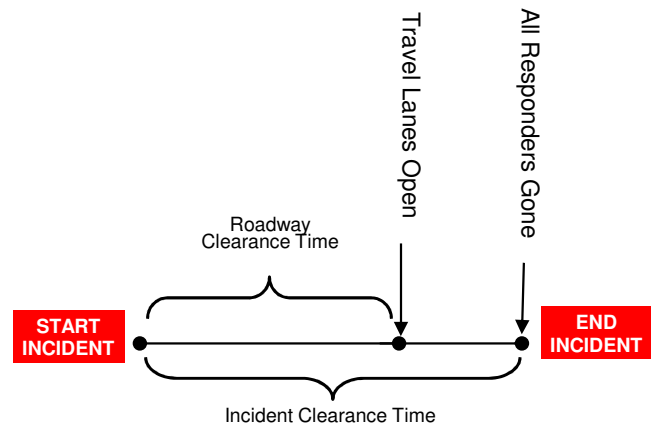
**Incident Clearance Time** is the time from the start of an incident (or when it is detected) to the time when responders leave the scene and/or the incident is declared as cleared.

**Roadway Clearance Time** is the time from the start of an incident (or when it is detected) to the time when all travel lanes are available for traffic.

## 2. Rollover Incident Statistics\*

VEHICLES	Trucks				Automobiles			
	AM Peak	PM Peak	Off-Peak	Total	AM Peak	PM Peak	Off-Peak	Total
No. of Rollovers	0	0	0	0	3	2	12	17
Avg. Incident Clearance (min)	0	0	0	0	43	182	49	64
Avg. Roadway Clearance (min)	0	0	0	0	43	182	49	64

\* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

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### 3. Incidents by Severity Level

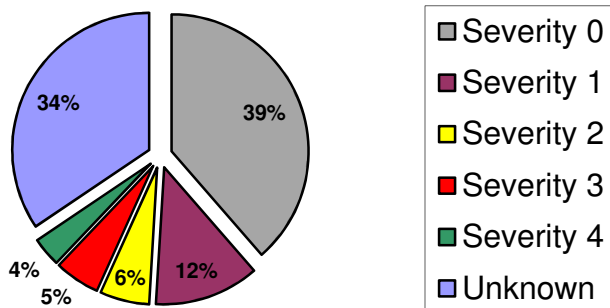
Severity Level*	No. of Incidents
Severity 0	391
Severity 1	125
Severity 2	59
Severity 3	54
Severity 4	35
Unknown	349
<b>Total</b>	<b>1013</b>

Number of Incidents with a Secondary Incident:

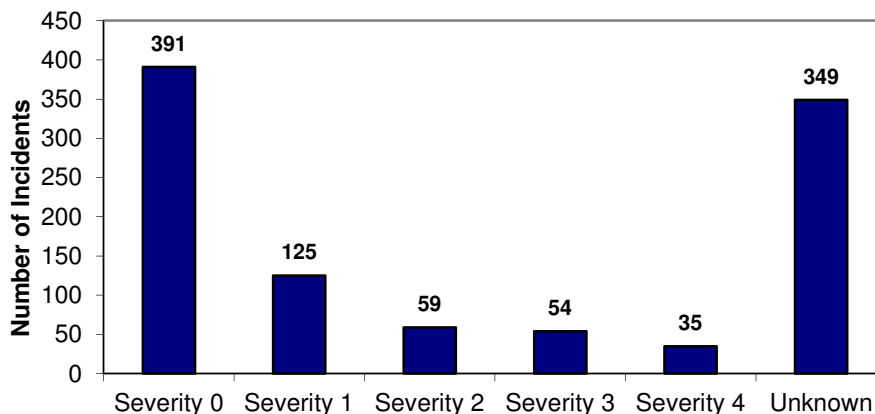
Percentage of Incidents with a Secondary Incident:

Note: A "secondary" incident is one that is the result of an earlier incident.

**Percent of Incidents by Severity Level**



**Number of Incidents by Severity Level**



#### \*Definition of Incident Severity Levels:

*Severity 0:* No injuries and no travel lanes blocked

*Severity 1:* 1/4+ travel lanes blocked with no injuries OR median/shoulder closed with injuries

*Severity 2:* 1/3 or 2/4+ lanes blocked OR Fire w/ 0 lanes closed OR hazardous materials (HAZMAT) w/ 0 lanes closed

*Severity 3:* 1/2 or 2/3 or 3/4+ lanes blocked OR Fire w/ 1/3 or 2/4 lanes closed OR

Hazmat w/ 2/4 lanes closed

*Severity 4:* All travel lanes blocked OR fatality OR Hazmat w/ clean-up OR Fire w/ 1/2, 2/3, 3/4 lanes closed

OR Structural damage w/ 1/3, 2/3+ lanes closed

*Unknown:* Incidents without a recorded severity level

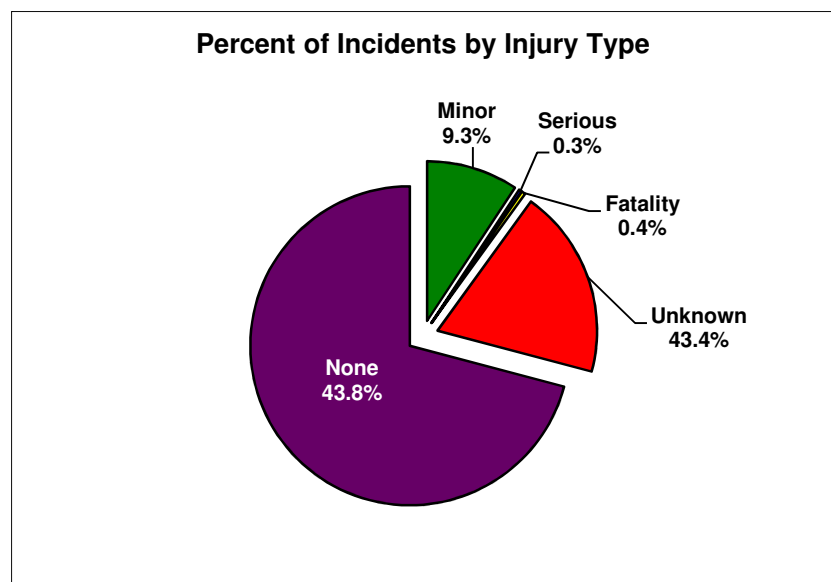
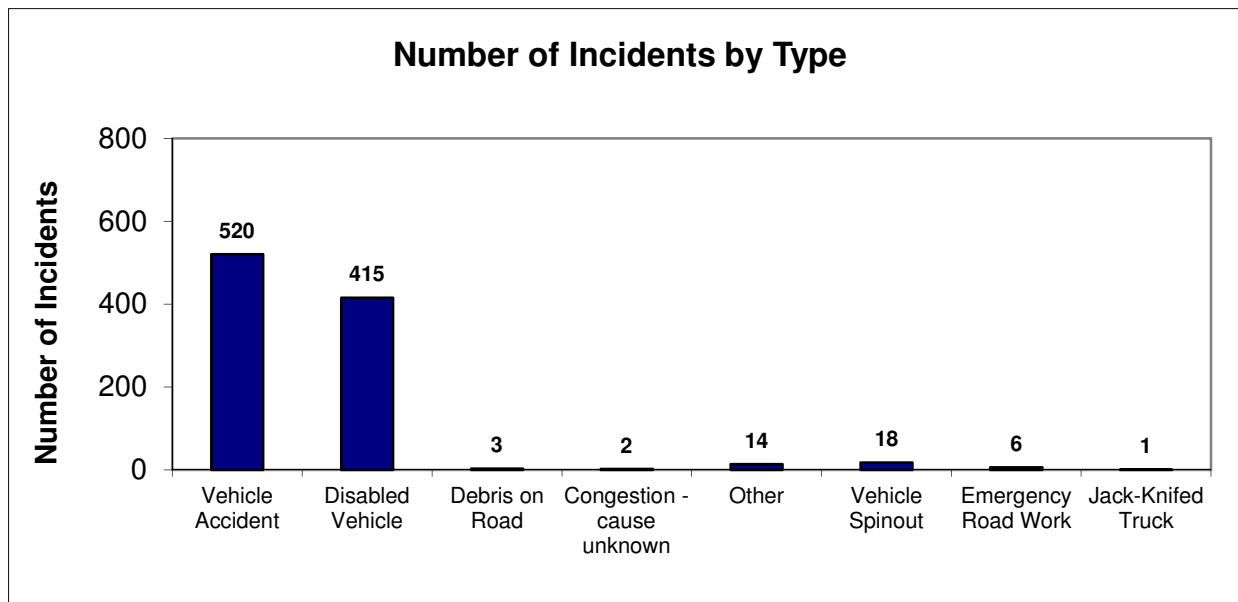
Note: For travel lanes blocked terminology, "1/4" indicates 1 out of 4 lanes blocked

#### 4. Incidents by Type

Incident Type	No. of Incidents
Vehicle Accident	520
Disabled Vehicle	415
Debris on Road	3
Congestion - cause unknown	2
Other	14
Vehicle Spinout	18
Emergency Road Work	6
Jack-Knifed Truck	1
<i>Total Number of Incidents</i>	<i>979</i>

#### 5. Incidents by Injury Type

Injury Type	No. of Incidents
Minor	94
Serious	3
Fatality	4
Unknown	194
None	718
<i>Total</i>	<i>1013</i>



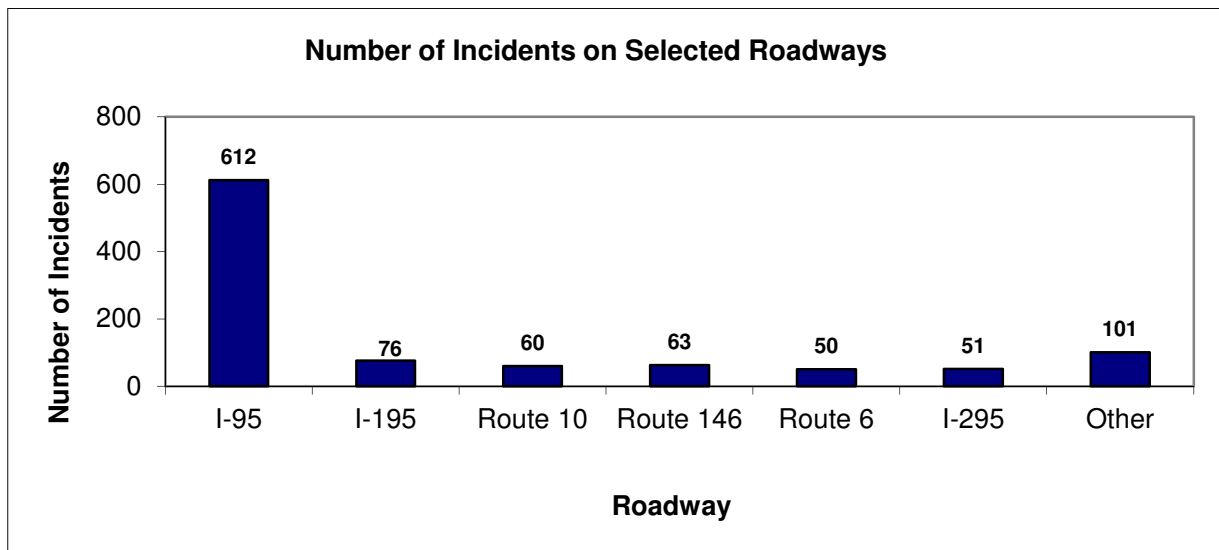
## 6. Incidents by Pavement and Weather Conditions

<b>Pavement Condition</b>	<b>No. of Incidents</b>
Dry	855
Wet	105
Icy	12
Snow-Covered	41
Flooded	0
Other	0
<i>Total</i>	<i>1013</i>
<b>Precipitation</b>	
None	909
Light-moderate rain falling	62
Heavy rain falling	0
Light-moderate sleet falling	0
Heavy sleet falling	1
Light-moderate snow falling	27
Heavy snow falling	14
<i>Total</i>	<i>1013</i>
<b>Wind</b>	
Calm to Moderate	995
Moderate to Strong	15
Gusts over 50 mph	0
Gusts over 75 mph	0
Hurricane	0
Other	0
N/A	3
<i>Total</i>	<i>1013</i>
<b>Visibility</b>	
Clear	925
Light fog	5
Dense fog	1
Reduced- rain	36
Reduced-snow	34
Poor-heavy rain/sleet	0
Poor-heavy snow	6
Reduced-smoke	1
Other	0
N/A	5
<i>Total</i>	<i>1013</i>

## 7. Incidents Detected by Primary Notifier on Selected Roadways

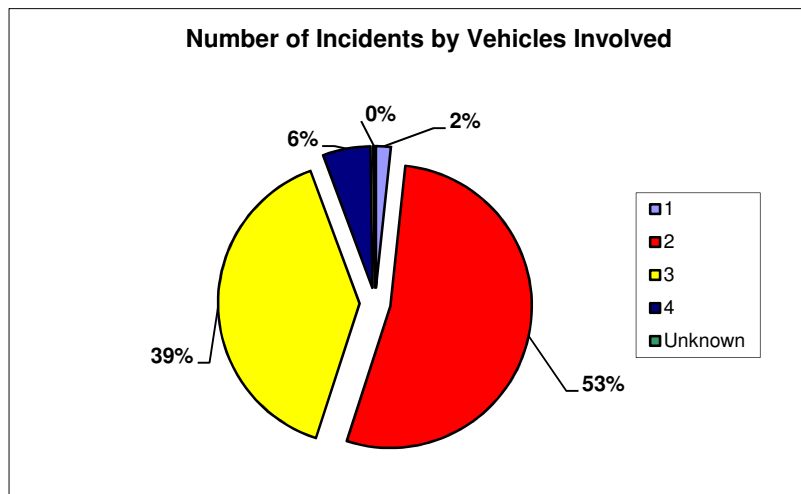
Roadway	Primary Notifier	No. of Incidents
I-195	TMC Operator	33
	State Police Scanner	40
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	3
	<b>Total</b>	<b>76</b>
I-95	TMC Operator	244
	State Police Scanner	341
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	1
	Other	26
	<b>Total</b>	<b>612</b>
I-295	TMC Operator	14
	State Police Scanner	30
	Local Fire Department	0
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	6
	<b>Total</b>	<b>51</b>

Roadway	Primary Notifier	No. of Incidents
Route 10	TMC Operator	16
	State Police Scanner	37
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	7
	<b>Total</b>	<b>60</b>
Route 146	TMC Operator	20
	State Police Scanner	38
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	5
	<b>Total</b>	<b>63</b>
Route 6	TMC Operator	25
	State Police Scanner	22
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	3
	<b>Total</b>	<b>50</b>



## 8. Incidents by Number of Vehicles Involved

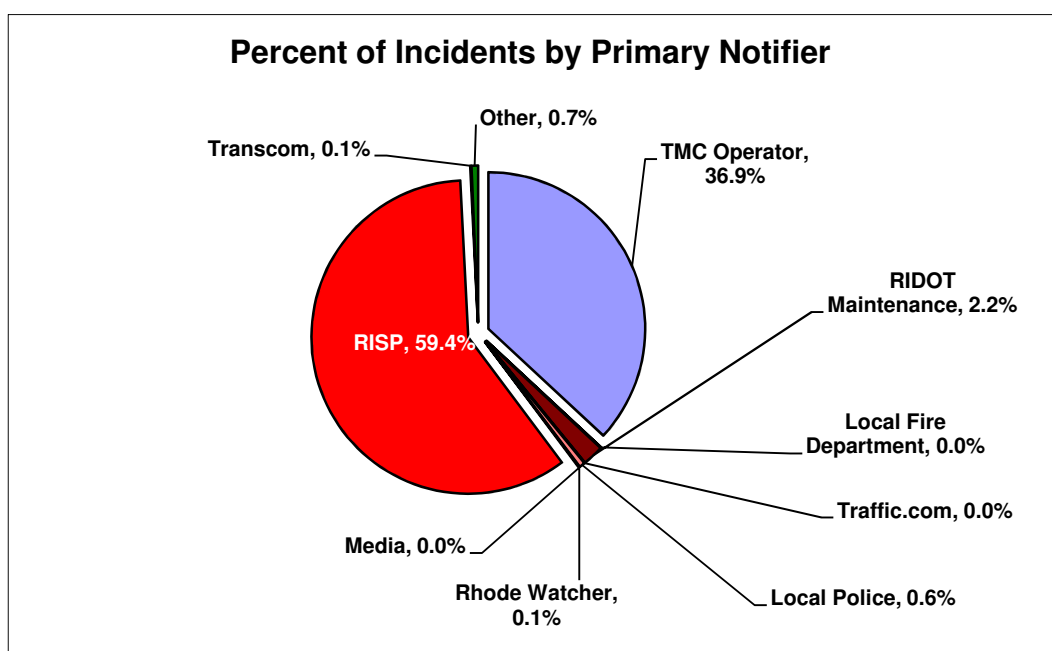
No. of Vehicles Involved	No. of Incidents
1	17
2	529
3	391
4	54
5	15
6	4
7	0
8	1
9	0
10+	0
Unknown	2
<b>Total Incidents</b>	<b>1013</b>



## 9. Incident Notification

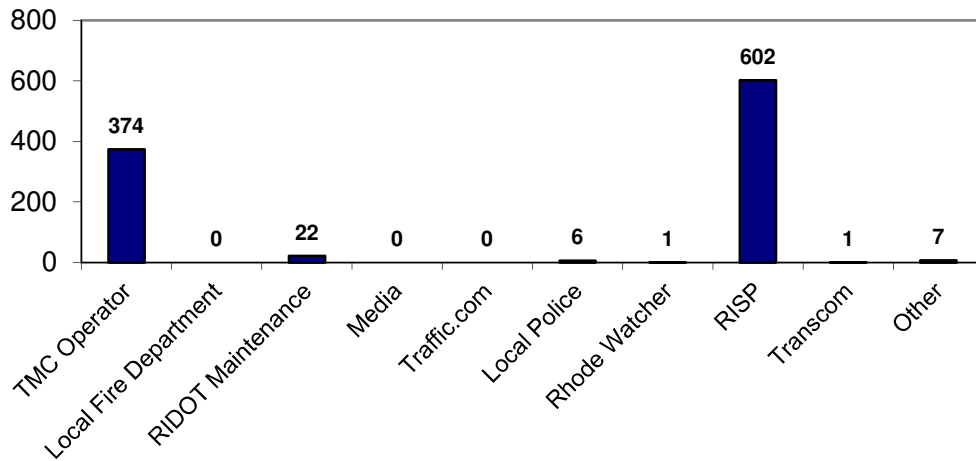
Primary Notifier*	No. of Incidents
TMC Operator	374
Local Fire Department	0
RIDOT Maintenance	22
Media	0
Traffic.com	0
Local Police	6
Rhode Watcher	1
RISP	602
Transcom	1
Other	7
<b>Total</b>	<b>1013</b>

\*First notifier of the incident to TMC





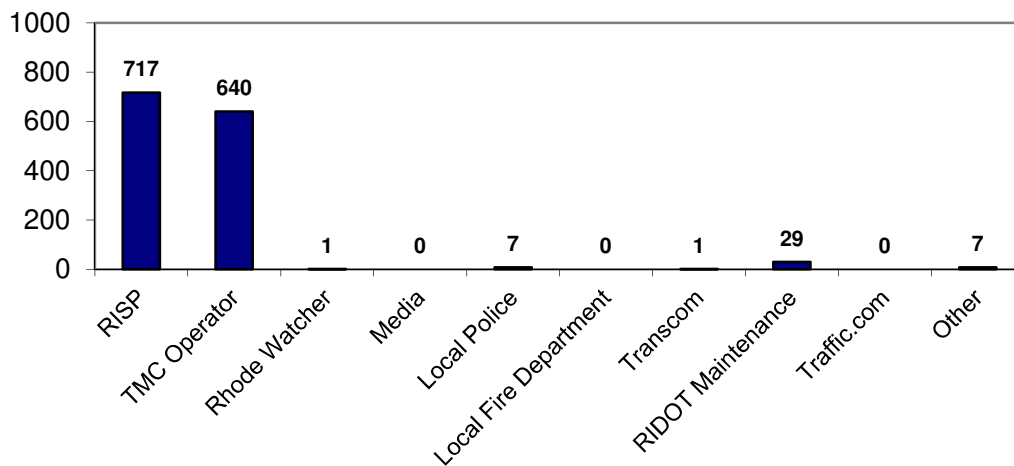
**Number of Incidents by Primary Notifier**



All Notifiers	No. of Incidents
RISP	717
TMC Operator	640
Rhode Watcher	1
Media	0
Local Police	7
Local Fire Department	0
Transcom	1
RIDOT Maintenance	29
Traffic.com	0
Other	7

*Note: Primary notifier indicates the first notifier of the incident to the TMC. Additional notifiers are also logged, and are represented in the statistics for "all notifiers".*

**Number of Incidents by All Notifiers**



## 10. Incident Response

On-Scene Responding Agency	No. of Incidents	Percent of Total Incidents
State Police	881	86.97%
Tow	329	32.48%
Local Fire Department	178	17.57%
EMS	167	16.49%
Local Police	31	3.06%
Service Patrol	17	1.68%
Mass Highway	0	0.00%
DOT	21	2.07%
Hazmat	0	0.00%
DEM	1	0.10%
Connecticut DOT	0	0.00%
Construction	2	0.20%
Coast Guard	0	0.00%
Department of Health	0	0.00%
K-9	1	0.10%
RIPTA	0	0.00%

	# of Incidents
# Utilizing Equipment (HAR,VMS or DMS)	329
# Utilizing VMS	76
# Utilizing DMS	264
# Utilizing HAR	145
# Posted to Web	826

*Note: Numbers and percentages in upper table indicate how many of the incidents during the month were responded to by the agency indicated. Note that multiple agencies may respond to an incident, so percentages do not add up to 100%.*

